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EXAMINER

CHOUDHURY, AZIZUL Q

ART UNIT PAPER NUMBER

2145

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/756,120

Applicant(s)

MOTOYAMA ET AL.

Examiner

Azizul Choudhury

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 August 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 and 32-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 and 32-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 January 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>10/05/2005</u> | 6) <input type="checkbox"/> Other: _____ |

Detailed Action

This office action is in response to the correspondence received on August 24, 2005.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-30 and 32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prithviraj et al (US Pat No: US005987513A) in view of Bonnell et al (US Pat No: 5,655,081), hereafter referred to as Prithviraj and Bonnell, respectively.

1. With regards to claim 1, Prithviraj teaches through Bonnell, a computer-implemented remote device monitoring system, comprising: a local monitoring device configured (1) to collect information from a device connected to a first network using a network management protocol, and (2) to send the information to a monitor connected to a second network via a wide area network using a protocol; and the monitor configured to receive the information using the protocol and store the information in a digital repository connected to the second network, wherein the local monitoring device is configured to automatically request the information from the device, without receiving any instructions from the monitor requesting that the information be collected from the device

(Prithviraj teaches a design for remotely monitoring networks (column 2, lines 46-60, Prithviraj). It uses computers and browsers to perform these tasks over a WAN such as the Internet (claim 27, Prithviraj). It also uses SNMP (simple network management protocol) (column 3, line 60, Prithviraj). In most network monitoring/managing systems, such as Prithviraj's, each network device contains an agent (Figure 3A). These agents handle tasks on the client device side. The NMS (network management stations) send and receive data from these agents to communicate, monitor and manage with the client devices with the agents (column 7, lines 28-38, Prithviraj). Plus, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Finally, Prithviraj's design allows for the information/display to be refreshed/updated periodically (equivalent to the claimed automatic request) (column 21, lines 33-38, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

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2. With regards to claim 2, Prithviraj teaches through Bonnell, a system wherein the information comprises at least one of status information corresponding to the device and configuration information corresponding to the device

(Prithviraj's design allows for status information (column 3, lines 51-53, Prithviraj) and configuration management (column 4, line 3, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

3. With regards to claim 3, Prithviraj teaches through Bonnell, a system wherein the device comprises a printer

(Prithviraj's design allows the management of network printers as well (column 10, lines 1-12, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to

provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

4. With regards to claim 4, Prithviraj teaches through Bonnell, a system wherein the status information comprises at least one of a low paper indicator, a no paper indicator, a low toner indicator, a no toner indicator, door open indicator, a jammed indicator, an offline indicator, and a service requested indicator

(Prithviraj's design allows for the administrator to obtain printer information such as out of paper information (column 10, lines 1-12, Prithviraj)). It is inherent that the other claimed monitoring traits for the printer is also possible.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

5. With regards to claim 5, Prithviraj teaches through Bonnell, a system wherein the configuration information comprises at least one of a manufacturer of the device, a model of the device a serial number of the device, a media access control address, an Internet protocol address, a company name, a street address, a city, a state, a postal

code, a physical location of the device, a contact person for the device, a phone number for the contact person, and an e-mail address for the contact person

(Each device within the network being managed/monitored has a MIB OID (management information base object identifier) associated with it (column 3, lines 4-17, Prithviraj). These identifiers allow the administrator to obtain the claimed identifications.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

6. With regards to claim 6, Prithviraj teaches through Bonnell, a system wherein at least a portion of the wide area network comprises the Internet

(Prithviraj's design uses wide area networks such as the Internet to perform its tasks over (claim 27, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to

provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

7. With regards to claim 7, Prithviraj teaches through Bonnell, a system wherein the protocol comprises at least one of a simple mail transfer protocol and an Internet mail access protocol

(Prithviraj's design allows for emails (column 7, line 55, Prithviraj). Email systems employ SMTP.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

8. With regards to claim 8, Prithviraj teaches through Bonnell, a system wherein at least a portion of at least one of the first network and the second network comprises an intranet

(A network can be made up of multiple smaller networks, as shown in Prithviraj's design (Figure 1, Prithviraj). An intranet is still a network and no limitation is set by

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Prithviraj as to what types of networks can be handled by the design. Hence intranets are valid networks under Prithviraj's design disclosure.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

9. With regards to claim 9, Prithviraj teaches through Bonnell, a system wherein the digital repository comprises a database

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj)).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

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10. With regards to claim 10, Prithviraj teaches through Bonnell, a system wherein the local monitoring device is further configured to store the collected information in a first digital repository connected to the first network, and to retrieve the information from the first digital repository

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Prithviraj's design also allows for other storage means such as databases (column 24, lines 1-6, Prithviraj). In addition, it is inherent that information and instructions would be readable by computers within a network management/monitoring system.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

11. With regards to claim 11, Prithviraj teaches through Bonnell, a system wherein the digital repository comprises a database

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Prithviraj's design also allows for other storage means such as databases (column 24, lines 1-6, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

12. With regards to claim 12, Prithviraj teaches through Bonnell, a system wherein the local monitoring device comprises a computer readable medium encoded with processor readable instructions comprises at least one of a dynamic link library, a static link library, a script, a JAVA class, a C++ class, and a C library routine

(Prithviraj's design allows for a number of languages such as JAVA (column 6, line 9, Prithviraj) and C (column 20, line 6, Prithviraj). It is inherent that a number of languages are applicable and that libraries and .dll files are used.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

13. With regards to claim 13, Prithviraj teaches through Bonnell, a system wherein the network management protocol comprises a simple network management protocol (Prithviraj's design uses SNMP (simple network management protocol) (column 3, line 60, Prithviraj)).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

14. With regards to claim 14, Prithviraj teaches through Bonnell, a system wherein the remote monitor is further configured to store the information in the digital repository through an open database connectivity interface

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Prithviraj's design also allows for other storage means such as databases (column 24, lines 1-6, Prithviraj). Such storage means have open interfaces.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

15. With regards to claim 15, Prithviraj teaches through Bonnell, a system wherein the local monitoring device is further configured to store the information in the first digital repository through an open database connectivity interface

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Prithviraj's design also allows for other storage means such as databases (column 24, lines 1-6, Prithviraj). Such storage means have open interfaces.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

16. With regards to claim 16, Prithviraj teaches through Bonnell, a method for remotely monitoring network devices, comprising: collecting, by a local monitoring device information from a device connected to a first network using a network management protocol; sending, by the local monitoring device, the information collected in the collecting step to a monitor connected to a second network via a wide area network using a protocol; receiving, by the monitor, the information sent in the sending step; and storing the information received in the receiving step in a digital repository connected to the second network, wherein the collecting step comprises automatically requesting the information from the device, without receiving any instructions from the monitor requesting that the information be collected from the device

(Prithviraj teaches a design for remotely monitoring networks (column 2, lines 46-60, Prithviraj). It uses computers and browsers to perform these tasks over a WAN such as the Internet (claim 27, Prithviraj). It also uses SNMP (simple network management protocol) (column 3, line 60, Prithviraj). In most network monitoring/managing systems, such as Prithviraj's, each network device contains an agent (Figure 3A). These agents handle tasks on the client device side. The NMS (network management stations) send and receive data from these agents to communicate, monitor and manage with the client devices with the agents (column 7, lines 28-38, Prithviraj). In addition, a network can be made up of multiple smaller networks, as shown in Prithviraj's design (Figure 1, Prithviraj). Plus, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Finally, Prithviraj's design allows

for the information/display to be refreshed/updated periodically (equivalent to the claimed automatic request) (column 21, lines 33-38, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

17. With regards to claim 17, Prithviraj teaches through Bonnell, a method wherein the information comprises at least one of status information corresponding to the device and configuration information corresponding to the device

(Prithviraj's design allows for status information (column 3, lines 51-53, Prithviraj) and configuration management (column 4, line 3, Prithviraj)).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

18. With regards to claim 18, Prithviraj teaches through Bonnell, a method wherein the device comprises a printer

(Prithviraj's design allows the management of network printers as well (column 10, lines 1-12, Prithviraj)).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

19. With regards to claim 19, Prithviraj teaches through Bonnell, a method wherein at least a portion of the wide area network comprises the Internet

(Prithviraj's design uses wide area networks such as the Internet to perform its tasks over (claim 27, Prithviraj)).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to

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provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

20. With regards to claim 20, Prithviraj teaches through Bonnell, a method wherein the network management protocol comprises a simple network management protocol wherein the network management protocol comprises a simple network management protocol

(Prithviraj's design uses SNMP (simple network management protocol) (column 3, line 60, Prithviraj)).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

21. With regards to claim 21, Prithviraj teaches through Bonnell, a method wherein the protocol comprises at least one of a simple mail transfer protocol and an Internet access protocol

(Prithviraj's design allows for emails (column 7, line 55, Prithviraj)). Email systems employ SMTP.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

22. With regards to claim 22, Prithviraj teaches through Bonnell, a method wherein the digital repository comprises a database

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Prithviraj's design also allows for other storage means such as databases (column 24, lines 1-6, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

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23. With regards to claim 23, Prithviraj teaches through Bonnell, a method further comprising: storing the collected information collected in the in the collecting step in a first digital repository; and retrieving the information stored in the step of storing the collected information step from the first digital repository

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Prithviraj's design also allows for other storage means such as databases (column 24, lines 1-6, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

24. With regards to claim 24, Prithviraj teaches through Bonnell, a method wherein the first digital repository comprises a database

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Prithviraj's design also allows for other storage means such as databases (column 24, lines 1-6, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

25. With regards to claim 25, Prithviraj teaches through Bonnell, a computer program product, comprising: a computer storage medium; and a computer program code mechanism embedded in the computer storage medium for causing a computer to remotely monitor a device connected to a first network with a monitor connected to a second network, the computer program code mechanism comprising: a first computer code device configured to collect information from the device over the first network using a network management protocol, and a second computer code device configured to send the collected information to the monitor via a wide area network using a protocol, wherein the first computer code device is configured to automatically request the information from the device, without receiving any instructions from the monitor requesting that the information be collected from the device

(Prithviraj teaches a design for remotely monitoring networks (column 2, lines 46-60. Prithviraj). It uses computers and browsers to perform these tasks over a WAN such as the Internet (claim 27, Prithviraj). It also uses SNMP (simple network

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management protocol) (column 3, line 60, Prithviraj). In most network monitoring/managing systems, such as Prithviraj's, each network device contains an agent (Figure 3A). These agents handle tasks on the client device side. The NMS (network management stations) send and receive data from these agents to communicate, monitor and manage with the client devices with the agents (column 7, lines 28-38, Prithviraj). Plus, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Finally, Prithviraj's design allows for the information/display to be refreshed/updated periodically (equivalent to the claimed automatic request) (column 21, lines 33-38, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

26. With regards to claim 26, Prithviraj teaches through Bonnell, a computer program product wherein the information comprises at least one of status information corresponding to the device and configuration information corresponding to the device (Prithviraj's design allows for status information (column 3, lines 51-53, Prithviraj) and configuration management (column 4, line 3, Prithviraj)).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

27. With regards to claim 27, Prithviraj teaches through Bonnell, a computer program product wherein the device comprises a printer

(Prithviraj's design allows the management of network printers as well (column 10, lines 1-12, Prithviraj)).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

28. With regards to claim 28, Prithviraj teaches through Bonnell, a computer program product wherein at least a portion of the wide area network comprises the Internet

(Prithviraj's design uses wide area networks such as the Internet to perform its tasks over (claim 27, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

29. With regards to claim 29, Prithviraj teaches through Bonnell, a computer program product wherein the network management protocol comprises a simple network management protocol

(Prithviraj's design uses SNMP (simple network management protocol) (column 3, line 60, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

30. With regards to claim 30, Prithviraj teaches through Bonnell, a computer program product wherein the protocol comprises at least one of a simple mail transfer protocol and an Internet access protocol

(Prithviraj's design uses both the Internet (claim 27, Prithviraj) and email (column 7, line 55, Prithviraj). Protocols must be followed for any network design such as the Internet and email, and hence the claimed traits are inherent.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

31. With regards to claim 32, Prithviraj teaches through Bonnell, a computer program product wherein the computer program code mechanism further comprises: a third computer code device configured to store the information collected by the first computer code device in a first digital repository, and a fourth computer code device configured to retrieve the information from the first digital repository

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Prithviraj's design also allows for other storage means such as databases (column 24, lines 1-6, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

32. With regards to claim 33, Prithviraj teaches through Bonnell, a computer program product wherein the first digital repository comprises a database

(Prithviraj's design allows for central storage, the data is stored in a central station (column 3, lines 49-57, Prithviraj). Prithviraj's design also allows for other storage means such as databases (column 24, lines 1-6, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to

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provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

33. With regards to claim 34, Prithviraj teaches through Bonnell, a system for remotely monitoring network devices, comprising: means for collecting information from a device connected to a first network using a network management protocol; means for sending the information collected by the means for collecting to a monitor connected to a second network via a wide area network using a protocol; means for receiving, by the monitor, the information sent by the means for sending; and means for storing the information received by the means for receiving in a digital repository connected to the second network, wherein the means for collecting comprises means for automatically requesting the information from the device, without receiving any instructions from the monitor requesting that the information be collected from the device

(Prithviraj teaches a design for remotely monitoring networks (column 2, lines 46-60, Prithviraj). It uses computers and browsers to perform these tasks over a WAN such as the Internet (claim 27, Prithviraj). It also uses SNMP (simple network management protocol) (column 3, line 60, Prithviraj). In most network monitoring/managing systems, such as Prithviraj's, each network device contains an agent (Figure 3A). These agents handle tasks on the client device side. The NMS (network management stations) send and receive data from these agents to communicate, monitor and manage with the client devices with the agents (column 7, lines 28-38, Prithviraj). Plus, the data is stored in a central station (column 3, lines 49-

57. Prithviraj). Finally, Prithviraj's design allows for the information/display to be refreshed/updated periodically (equivalent to the claimed automatic request) (column 21, lines 33-38, Prithviraj).

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

34. With regards to claim 35, Prithviraj teaches through Bonnell, a system wherein: the network management protocol is a simple network management protocol; and the protocol is at least one of a simple mail transfer protocol and an Internet mail access protocol

(Prithviraj's design uses SNMP (simple network management protocol) (column 3, line 60, Prithviraj). In addition, Prithviraj's design allows for emails (column 7, line 55, Prithviraj). Email systems employ SMTP.

Bonnell also teaches a network monitoring design. The design features agents that are autonomous and are capable of managing and monitoring by themselves (column 6, lines 42-47, Bonnell).

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Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Prithviraj with those of Bonnell, to provide an enterprise management system that will increase automation and efficiency (column 6, lines 20-22, Bonnell)).

Response to Remarks

The newly amended independent claims have been evaluated and it was determined that the Prithviraj prior art did not overcome the newly amended material. In lieu of the finding, a new search has been performed and the existence of autonomous agents has been yielded. One such prior art that teaches this feature is the Bonnell prior art, which has been included in combination with the Prithviraj prior art, to formulate a 103 type rejection.

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Azizul Choudhury whose telephone number is (571) 272-3909. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571) 272-3933. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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AC



Jason Cardone
Supervisory Patent Examiner (SPE)